

Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
Product Name TRIBAL™ GOLD		

Section 1 - Identification

Product Identifier	TRIBAL™ GOLD
Product Code	00662
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	Selective herbicide for controlling broadleaf weeds in new and established pastures.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Eye irritation Category 2, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.
Signal Word (s)	WARNING
Hazard Statement (s)	H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H320 Causes eye irritation. H333 May be harmful if inhaled. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child . H371 May cause damage to organs May cause damage to liver from repeated oral exposure. . H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, Environment



Precautionary Statement – Prevention	P201 Obtain special instructions before use. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P281 Use personal protective equipment as required.
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Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
--------------------	---------------------------	------------------

 Product Name **TRIBAL™ GOLD**

Precautionary Statement – Response	P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage.
Precautionary Statement – Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Precautionary Statement – Disposal	P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	MCPB acid (present as the dimethylamine salt)	94-81-5 (acid)	300 g/L
	MCPA (present as the dimethylamine salt)	2039-46-5	20 g/L
	Flumetsulam	98967-40-9	10 g/L
	Water, other ingredients (non-hazardous)		To volume

Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
--------------------	---------------------------	------------------

Product Name **TRIBAL™ GOLD**

Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Section 7 - Handling and Storage

Handling and Storage	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. The person mixing or applying TRIBAL GOLD must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.
Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of this product require secondary containment and are subject to signage, and more than 100L require emergency response plans.
Corrosiveness	Corrosive to eyes.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for dimethylamine = 10ppm and 18mg/m ³
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate. When working with the concentrate in confined spaces, it is recommended that forced ventilation be used to remove traces of dimethylamine vapour from the working atmosphere

Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
--------------------	---------------------------	------------------

Product Name **TRIBAL™ GOLD**

Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, washable hat, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Brown - amber liquid
Odour	Information is not available.
Decomposition Temperature	Information is not available.
Solubility in Water	Soluble
Specific Gravity	1.072
pH	8.5 - 9.5 (1%)
Vapour Pressure	MCPA & MCPB dimethylamine salts are not volatile.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Information is not available.
Flash Point	Information is not available.
Flammability	Not flammable.
Auto-ignition Temperature	Not applicable.
Flammable Limits - Lower	Not applicable.
Flammable Limits - Upper	Not applicable.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	Information is not available.
Melting/Freezing Point	Information is not available.
Other Information	(SL) Soluble concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Reaction of the concentrate or spray mix with acids will precipitate solid MCPA and MCPB and largely de-activate the product and cause blockages in spray equipment.
Possibility of Hazardous Reactions	May react violently with strong oxidising material such as chlorine. If strong alkalis such as caustic soda are added, dimethylamine vapour will be released.

Section 11 - Toxicological Information

Toxicology Information	MCPA is considered to be of moderate toxicity to man. There have been very few reported acute toxic effects on users over many years. Several deaths
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Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
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Product Name **TRIBAL™ GOLD**

	have been recorded, but all of these have been deliberate suicide, generally using the sodium salt. MCPB is of moderate toxicity to man.
Acute Toxicity - Oral	Acute oral LD50 (rat) 700mg/kg (MCPA), 680mg/kg (MCPB) Acute oral LD50 (mice) 439mg/kg (MCPA)
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >1.14mg/L air (MCPB) LC50 (rat) (4hr) >6.36mg/L air (MCPA)
Acute Toxicity - Dermal	Acute dermal LD50 (rat) >1,000mg/kg (percutaneous, (MCPA), >2,000mg/kg (percutaneous, MCPB)
Ingestion	The concentrate is not considered a serious hazard due to moderate toxicity. However, the concentrate is considered harmful if swallowed, when classified according to Worksafe Criteria.
Inhalation	Not considered a serious hazard because MCPA and MCPB (dimethylamine salts) are practically non-volatile; however, inhalation of spray mists should be avoided. Inhalation of the spray is harmful.
Skin Corrosion/Irritation	The concentrate may cause irritation and possible damage if contact with the concentrate is prolonged or excessive. Some absorption of MCPA and MCPB through the skin is possible. Not a skin irritant.
Serious Eye Damage/Irritation	The concentrate is corrosive and may cause eye damage. Causes eye irritation.
Respiratory Sensitisation	Information is not available.
Skin Sensitisation	Not a sensitiser.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Repeated Exposure	May cause liver damage from repeated oral exposure at high doses.
Aspiration Hazard	Information is not available.
Subchronic/Chronic Toxicity	Liver and kidney damage has been noted in laboratory animals but only after excessive doses.
Health Hazard	Acute over exposure: Headache, nausea and vomiting with possible twitches and spasms in extreme cases.
Other Information	The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 4/2023). The Australian Acceptable Daily Intake (ADI) for MCPB for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 4/2023).

Section 12 - Ecological Information

Ecotoxicity	Very toxic to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Selective herbicide: very toxic to some plant species.
Persistence and Degradability	MCPB and flumetsulam are not rapidly degradable.
Bioaccumulative Potential	MCPA, MCPB and flumetsulam are not bioaccumulative.
Other Adverse Effects	Information is not available.

Infosafe No™ 3NURI	Issue Date : January 2024	ISSUED by NUFARM
--------------------	---------------------------	------------------

 Product Name **TRIBAL™ GOLD**

Environmental Protection	Do not spray in areas where damage to sensitive plants may result from direct application or spray drift. Do not spray in high winds.
Acute Toxicity - Fish	LC50 (96h) rainbow trout = 91mg/L for MCPA LC50 (48h) fathead minnow = 11mg/L for MCPB LC50 (96h) silverside minnow = >379mg/L for flumetsulam
Acute Toxicity - Daphnia	LC50 (48h) daphnia = 55mg/L for MCPB sodium salt LC50 (48h) daphnia = >190mg/L for MCPA
Acute Toxicity - Algae	EC50 (96h) Navicula pelliculosa = 0.21mg/L for MCPA EC50 (120h) Selenastrum capricornutum = 0.42mg/L for MCPB sodium salt EC50 (5d) Scenedesmus costatum = 0.003mg/L for flumetsulam
Acute Toxicity - Other Organisms	EC50 Bobwhite quail = 377mg/kg for MCPA LD50 bee = 104µg/bee for MCPA LC50 bee = >100µg/bee for flumetsulam

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (MCPB and MCPA)
Hazard Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
Other Information	Do not carry more than 1L of this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P8965 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101368 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	June 2020.
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted	Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...



Material Safety Data Sheet

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CS: 3.5.5

Page: 7 of 7

Infosafe No™ 3NURI

Issue Date : January 2024

ISSUED by NUFARM

Product Name **TRIBAL™ GOLD**

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